

WHAT IS CLAIMED IS:

1. A composition for the accelerated healing of wounds and burns comprising particulates of bioactive glass and at least one topical antibiotic.

2. The composition of claim 1, wherein said bioactive glass has a composition by weight percentage:

| | |
|-------------------------------|-------|
| SiO ₂ | 40-60 |
| CaO | 10-30 |
| Na ₂ O | 10-35 |
| P ₂ O ₅ | 2-8 |
| CaF ₂ | 0-25 |
| B ₂ O ₃ | 0-10 |
| K ₂ O | 0-8 |
| MgO | 0-5 |

3. The composition claim 1, wherein said bioactive glass has a particle size range less than 90 microns.

4. The composition of claim 1, wherein said bioactive glass has a particle size range less than 10 microns.

5. The composition of claim 1, wherein said bioactive glass has a particle size range less than 2 microns.

6. The composition of claim 1, wherein said topical antibiotic is chloramphenicol, chlortetracycline, clyndamycin, clioquinol, erythromycin, framycetin, gramicidin, fusidic acid, gentamicin, mafenide, mupirocin, neomycin, polymyxin B, bacitracin, silver sulfadiazine, tetracycline, chlortetracycline, or combinations thereof.

7. The composition of Claim 1, further comprising a pharmaceutically acceptable carrier.

8. The composition of Claim 7, wherein said pharmaceutically acceptable carrier is an ointment, gel, white petrolatum, light mineral oil, or mixtures thereof.

9. A method for treating wounds and burns comprising contacting a wound with an effective wound healing amount of bioactive glass and topical antibiotic.

10. A method for grafting skin comprising applying bioactive particulate glass to a graft of skin and then placing the graft.

11. The method of claim 10, further comprising applying a topical antibiotic to the graft.

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~~12.~~ A wound or burn dressing comprising a bandage, a topical antibiotic and particulate bioactive glass.

13. The wound or burn dressing of claim 12 wherein said bandage is cotton, gauze, fiberglass, fiberglass made from bioactive glass or synthetic material.

~~14.~~ A wound or burn treatment apparatus comprising a topical antibiotic in a first chamber, a particulate bioactive glass in a second chamber and a mixing means for mixing the topical antibiotic and the particulate bioactive glass.

15. The apparatus of Claim 14, wherein said wound or burn treatment apparatus is a multi chamber syringe.

~~16.~~ A method for accelerating the healing of wounds or burns comprising contacting a wound or burn with an effective wound or burn healing accelerating amount of a particulate bioactive glass.

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